



SEQUENCE LISTING

<110> Allen, Keith D.

<120> TRANSGENIC MICE CONTAINING
MELANOCORTIN-3 RECEPTOR GENE DISRUPTIONS

<130> R-653

<140> US 09/903,395

<141> 2001-07-10

<150> US 60/218,074

<151> 2000-07-12

<150> US 60/243,958

<151> 2000-10-26

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1675

<212> DNA

<213> Mus musculus

<400> 1

```
tctagactgg acagcatcca caagagaagc acctagaagg agaattttcc ccagcagctt 60
gtccaggacc ctgcaggacc cgcagctggg actggacctg ctgttaacca tgaactcttc 120
ctgctgectg tcttctgttt ctccgatgct gcctaaccctc tctgagcacc ctgcagcccc 180
tcttgccagc aaccggagcg gcagtggtgt ctgtgagcag gtcttcatca agccggaggt 240
cttctctggc ctgggcacgc tcagtctgat ggaaaacatc ctgggtgatcc tggctgtggt 300
caggaatggc aacctgcact ctcccatgta cttcttctctg tgcagcctgg ctgcagccga 360
catgctgggtg agcctgtcca actccctgga gaccatcatg atcgccgtga tcaacagcga 420
ctccctgacc ttggaggacc agtttatcca gcacatggat aatatcttcg actctatgat 480
ttgcatctcc ctggtggcct ccattctgcaa cctcctggcc attgccatcg acaggtacgt 540
caccatcttc tatgcccttc ggtaccacag catcatgaca gttaggaaaag ccctcacctt 600
gatcgggggtc atctgggtct gctgoggcac ctgcggcgctg atgttcatca tctactccga 660
gagcaagatg gtcacgtgtg gtctcatcac catgtttcttc gccatggtgc tctcatggg 720
caccctatat atccacatgt tctctcttgc caggctccac gtccagcgca tgcagtgct 780
gcccctctgt gggtgtgtgg cccacagca ggaactctgc atgaaggggg ctgtcaccat 840
cactatctctg ctgggtgttt tcatctctctg ctgggggctt tcttctctcc acctggctct 900
catcatcacc tggccaccca atccctactg catctgttac acggcccat tcaacaceta 960
cctggttctc atcatgtgca actccgtcat cgaacccctc atctacgct tccgcagcct 1020
ggagctgcgc aacacgttca aggagattct ctgcggctgc aacagcatga acttgggcta 1080
ggatgccctg ggaggtgttc cacatccagc caagagacaa aaacaacgct cagacgggac 1140
gtaaaagggg gttaggagct ggaactgtgc ttggctctgt ctgtaagctc gtggcccttt 1200
gcagacggga caggcgtag gatggctgt ctgtgaggat ctgtgtgtgg gtaagtacgt 1260
ttgatctagc acatagcctg gaagaatcag gcaaaagcag cctgagtgtc atctgtgttc 1320
attgctagga acccaggggt tgtggccctt gctgtttat tggctttgta ccagtaactg 1380
tacttcaacc caaccagacc ggaagctctt cctgagcaga aagatgctt agacttggg 1440
```

<411> 1

<412> 1675

<213> Mus musculus

[illegible]

(213) Artificial Sequence

220

[illegible]

<210> 4
<211> 200
<212> DNA
<213> Artificial Sequence

<220>
<223> Targeting Vector

<400> 4
cattgccatc gacaggtacg tcaccatctt ctatgccctt cgggtaccaca gcatcatgac 60
agtgaggaaa gccctcacct tgatcggggg catctgggtc tgctgcggca tctgcggcgt 120
gatgttcac cttactccg agagcaagat ggatcatcgtg tgtctcatca ccatgttctt 180
cgccatggtg ctctcatgg 200